AUTHOR INDEX TO VOLUME 13

Abdel-Rahman, M. S., 825
Anderson, R. J., 835
Arias, E., 735
Autor, A. P., 387

Back, K. C., 125
Bailey, G. S., 649
Barfknecht, T. R., 99
Barnes, C. R., 777
Barnett, P., 991
Barraco, D., 705
Barry, B. E., 301
Bassett, D. J. P., 365
Benoit, F. M., 777
Berndt, W. O., 553
Bernert, J. T., Jr., 673
Billedeau, S. M., 615
Block, E. R., 369
Bogdanffy, M. S., 799
Bonham, A. C., 387
Boucier, D. R., 865
Bowman, L., 845
Bracken, W. M., 865
Bromberg, P. A., 297
Brown, D. R., 799
Bull, R. J., 825
Burton, D. T., 969
Busbee, D. L., 43
Byard, J. L., 145

Carter, D. E., 959
Carter, S. D., 53
Castranova, V., 845
Chang, L.-Y., 301
Chapin, E., 879
Choe, S. Y., 133
Christiani, D. C., 545
Chu, I., 777
Clements, C. L. 991
Colby, H., 845
Coulombe, R. A., 649
Coye, M. J., 991
Crapo, J. D., 301

D'Agostino, R. B., 879
Denine, E. P., 811
DePass, L. R., 757
Donovan, R., 893
Dunham, C. B., 835

Ebron, M. T., 499
Eisenstein, E. M., 705
El Nahas, S. M., 643

Fiddler, W., 595
Fowler, E. H., 757
Frazier, M. E., 531
Freeman, J. P., 615

Gardner, D. E., 423
Gaworski, C. L., 125
Gehr, P. 235
Gil-Martin, R., 1
Globus, M., 643
Goldstein, E., 415, 893
Gordon, E. B., 83
Graham, J. A., 487
Graves, W. C., 969
Green, G. M., 471
Greene, S. A. 945
Groce, D. F., 673
Gutierrez-Millet, V., 1

Hahn, F. F., 945
Hall, L. W., Jr., 969
Hall, W. C., 83
Hansen, E. B., Jr., 615
Hatch, G. E., 487
Hein, J. F., 53
Henderson, R. F., 945
Hendricks, J. D., 649
Hobson, J. F., 959
Hsieh, D. P. H., 145, 575

Ingram, P., 99

Joe, C. O., 43
Jonsen, J., 857
Junkins, E., 19

Keller, W. C., 125
Khalique, A., 787
Khera, K. S., 747
Kim, D. H., 133
Kimura, A., 893
Kitchin, K. T., 499
Koller, W. A., 31
Kornbrust, D. J., 99
Koval, T. M., 117

Låg, M., 857
Laskey, J. W., 53
Leavitt, R. A., 659
LeBel, G. L., 19
LeFevre, M., 979
Leith, D. E., 251
Lewis, D. M., 31
Lewis, T. R., 31
Lightner, D. V., 959
Lijinsky, W., 609
Lin, L.-H. C., 633
Lippmann, M., 441
Llewellyn, G. C., 563
Loury, D. J., 145
Loury, D. N., 575
Lown, B. A., 879
Lundgren, D. L., 945

Mahlum, D. D., 531
Margrey, S. L., 969
Massaro, E. J., 879
Mattox, J. K., 633
Mauderly, J. L., 345, 945
Mayura, K., 553
McGinnis, P. M., 763
Mentnech, M. S., 31
Menzel, D. B., 183
Menzer, R. E., 721
Mercer, R. R., 301
Midtling, J. E., 991
Miles, P. R., 845
Miller, B. J., 615
Moilanen, R., 689
Montgomery, M. R., 69
Morganti, J. B., 879
Morrow, P. E., 205
Mull, J. C., 31, 545

Mussalo-Rauhamaa, H., 689

Navas-Palacios, J. J., 1
Niewenhuis, R. J., 763
Nishie, K., 595
Nulty, E., 979

Olenchock, S. A., 31, 545
Olson, C. T., 125
O'Malley, M. A., 991
Opdycke, J. C., 721
Oudiz, D. J., 763
Overton, J. H., Jr., 273

Parker, C. M., 83
Parker, R., 553
Patterson, D. R., 83
Paulsen, G., 857
Pei-lian, L., 545
Pensabene, J. W., 595
Pereira, M. A., 633
Peterson, A., 511
Phalen, R. F., 231
Phillips, T. D., 553
Polin, D., 659
Prytherch, J. P., 811
Pyysalo, H., 689

Qin, Y. H.. 777

Rankin, P. W., 43
Rasmussen, R. E., 397
Raub, J. A., 487
Rehnberg, G. L., 53
Reuber, M. D., 609
Romero, P., 991
Rose, T. G., 991

Shamblin, P. B., 69
Schatz, R. A., 799
Schlesinger, R. B., 441
Sharma, R. P., 865
Shelburne, J. D., 99
Shelton, D. W., 649
Sherwood, R. L., 893
Shin, C. G., 133
Siegel, D., 705
Smart, T., 787
Somani, S. M., 787
Strom, K. A., 919
Suh, D. H., 825
Sutton, M. L., 811
Suzuki, A. K., 905

Thies, R. L., 387
Thompson, H. C., Jr., 615
Thompson, J. S., 563
Thurlbeck, W. M., 323
Tobin, M. W., 991
Topinka, M. A., 705
Trofeli, R., 705
Tsubone, H., 905

Usera-Sárraga, G., 1
Uwaifo, A. O., 521

Valerio, M. G., 83
Van Gelder, G. A., 83
Velasco, A. R., 991
Vethamany-Globus, S., 643
Viau, A., 777
Villeneuve, D. C., 777

Wagner, G. J., 979
Walum, E., 511
Weil, C. S., 757
Williams, D. T., 19
Wilson, R. D., 43
Wind, M. L., 615
Wolff, R. K., 945
Wright, J. R., 845

Yang, K. H., 133
Yi-e, S., 545

Zaffaroni, N. P., 735
Zavanella, T., 735
Zenick, H., 763
Zennie, T. M., 589
Ziprin, R. L., 43

SUBJECT INDEX TO VOLUME 13

Adipose tissue, human, organochlorine residues in, 19
Aflatoxin B_1 (AFB_1):
  and AFM_1, effects of chronic exposure to, on binding of AFB_1 to hepatic macromolecules, 575
  and DMSO, influence of, on radiomanganese in neonate mice, 563
  fed to rainbow trout, and effect of dose of Aroclor 1254, 649
  in grain elevator dusts, 589
  in primary hepatocyte cultures, effect of phenobarbital pretreatment on, 145
Alveolar macrophages and type II cells in lung, effects of metallic ions in lung on, 845
Aroclor 1254 (PCB), effect of, on inhibition of carcinogenesis/mutagenesis in rainbow trout fed AFB_1, 649
Ascorbic acid and paraquat, potentiated toxicity observed with, 69

Benomyl, effect of, on reproductive development of male rats, 53
Benzo[a]pyrene metabolism, adrenal mediation of ethanol's inhibition of, 799
Benzo[a]pyrene uptake by lymph, 43
Bone marrow of rats, chromosomal aberrations induced by sodium nitrite in, 643
Bronchitis, chronic, induced by sulfur dioxide in beagle dogs, 945

Cadmium in wheat grain, 979
Cardiopulmonary responses, reflex, by stimulation to type J receptors in rats exposed to NO_2, 905
Chlordimeform and dieldrin, effects of, on learning and memory in cockroach, 705
Citrinin, effect in rat of prenatal exposure to, with ochratoxin A, 553
Coal dust and diesel exhaust, effects of, on immune competence in rats, 31
Coal liquid, hydrotreated, 531
Colestipol and energy restriction for removing PBBs from chickens, 659
Coumarin and furan derivatives, mutagenicities of, 521
Cytotoxicity in bovine kidney cell cultures, and relation to inorganic mercury, 865

2,4-Dichlorophenol metabolized by isolated perfused rat liver, 787
Dieldrin and chlordimeform, effects of, on learning and memory in cockroach, 705
Diesel exhaust:
  and coal dust, effects of, on immune competence in rats, 31
  response of pulmonary cellular defenses to inhalation of, 919
Di(2-ethylhexyl) phthalate (DEHP), effect of, on DNA repair, lipid peroxidation, and metabolic cooperation, 99
Diflubenzuron, pharmacokinetics of, in chickens, 721
Dimethyl sulfoxide (DMSO) and AFB_1, influence of, on radiomanganese in neonate mice, 563
1,2-Dimethylhydrazine (DMH) and inhibition of DNA synthesis in mouse colon, 117
Dimethylnitrosamine demethylase, inhibition of, 633
DNA damage and DEHP, 99
DNA single-strand breaks induced by procarcinogens, 133
DNA synthesis, replicative and repair, inhibition of, by DMH, 117
Di-*sec*-butoxyacetophenone and diethoxyacetophenone, dermal oncogenicity bioassays of, 757
Dosimetry models, formulation of, and physicochemical processes, 273

Emphysema:
  pathobiology and epidemiology of, 323
  respiratory function responses to, compared with oxidant gases, 345
Endotoxins, airborne, in a rice production commune near Shanghai, 545
Ethanol's inhibition of benzo[a]pyrene metabolism, adrenal mediation of, 799
Ethoxyethanol exposure, and male rat reproductive toxicity and recovery, 763
Ethylenethiourea-induced hindpaw deformities in mice, and effects of metabolic modifiers, 747

Fenvalerate in rats, chronic toxicity and carcinogenicity of, 83
Fungicide maneb 80, limb regeneration in newts exposed to, 735

Grain elevator dusts, AFB_1 in, 589

Haloacetonitrile excretion as thiocyanate, 633
Hepatocarcinogenicity of DEHP, and damage to DNA, 99
Hexacarbon neurotoxicity, electrophysiologic deficits in peripheral nerve for determining, 835
Host defense mechanisms against pulmonary infectious diseases, in animals and humans, similarities of, 471
Hydrotreated coal liquid, mutagenic and carcinogenic activity of, 531

Immune competence in rats, effects of coal dust and diesel exhaust on, 31
Immunosuppressive chemicals, benzo[a]pyrene uptake by lymph as possible transport mode for, 43
Infection in animals and humans, oxidant-induced enhanced sensitivity to, 423

Kidney, pathology of, in "toxic oil epidemic syndrome," 1

Liver cells of rat embryos, chromosomal aberrations induced by sodium nitrite in, 643
Liver microsomal lipids, lipid peroxidation, and membrane anisotropy in rat, from PBBs, 673
Lung cells exposed to NO_2 and O_2, *in vitro* systems for, 397
Lung injury, early metabolic changes in response to, 369
Lung structure, alterations in, caused by inhalation of oxidants, 301
Lungs, mammalian, mass transport in, 251

Medicinal plants, coumarin and furan derivatives isolated from, 521
Mercury, inorganic, cellular distribution of, and relation to cytotoxicity in bovine kidney cell cultures, 865
Metallic ions, effects of, on alveolar macrophages and type II cells in lung, 845
Methylated hydrazine derivatives, teratogenic assessment of, 125
Monochloramine as an alternative drinking-water disinfectant, 825
Mucociliary clearance in tracheobronchial airways, 441

NADPH, paraquat-induced, stimulation of, 69
N-nitrosamines in rubber, determination of, by gas chromatography–thermal energy analysis, 615
N-nitrosothiazolidine and *N*-nitrosomorpholine, comparison of acute toxicities of, 595
Neuroblastoma cells, cultured, applied in chemical toxicity screening, 511
Nitrofurantoin macrocrystals in rats and rabbits, reproduction, perinatal-postnatal, and teratology studies of, 811
Nitrogen dioxide:
  effect of, on reflex cardiopulmonary responses by stimulation to type J receptors in rats, 905
  and O_3, *in vitro* systems for exposure of lung cells to, 397
NO_X, toxicological data on, 205

Ochratoxin A, effect in rat of prenatal exposure to, with citrinin, 553
Oil, toxic, and kidney pathology, 1
Organochlorine compounds in human adipose tissue, influence of diet and other factors on, 689
Organochlorine residues in human adipose tissue autopsy samples, 19
Organophosphate poisoning, acute, persistence of symptoms of, among farm field workers, 991
Oxidant gases:
  and alterations in lung structure, 301
  respiratory function responses to, compared with emphysema, 345
Oxidant-induced enhanced sensitivity to infection, 423
Oxygen radicals, toxicity of, in cultured pulmonary endothelial cells, 387
Ozone:
  effect of, on rats with chronic pulmonary bacterial infection, 893
  toxicity of, 183

Paraquat toxicity and ascorbate, 69
Particle deposition in tracheobronchial airways, 441
Phenobarbital pretreatment, effect of, on metabolism, covalent binding, and cytotoxicity of AFB_1 in rat hepatocyte cultures, 145
Photochemical oxidants, effect of, on pulmonary susceptibility to bacterial infection, 415
Phthalate ester, toxicity of, in diet of penaied shrimp, 959
Platinum sulfate, effects on offspring of mice exposed to, 879
Pneumoconiosis in mice, indicators of, compared with rats, 487
Polybrominated biphenyls (PBBs):
  removed from chickens by colestipol and energy restriction, 659
  response of rat liver to single oral dose of, 673
Pulmonary bacterial infection, chronic, effect of ozone on rats with, 893
Pulmonary cellular defenses, response of, to inhalation of diesel exhaust, 919

Pulmonary endothelial cells, toxicity of oxygen radicals in, 387
Pulmonary infectious diseases, host defense mechanisms against, in animals and humans, 471
Pulmonary susceptibility to bacterial infection, effect of photochemical oxidants on, 415

Radiomanganese distribution and retention in neonate mice, 563
Regeneration of limbs of newts exposed to fungicide maneb 80, 735
Reproductive development of rats, effect of benomyl on, 53
Reproductive toxicity and recovery in male rats exposed to ethoxyethanol, 763
Respiratory tract:
lower, physicochemical processes in, 273
structure and function, 235
Rubber nipples from baby pacifiers, *N*-nitrosamines in, 615

Screening for chemical toxicity, application of cultured neuroblastoma cells in, 511
Sodium hexachloroplatinate, effects on offspring of mice exposed to, 879
Sodium nitrite:
chromosomal aberrations induced by, in rat bone marrow and liver cells, 643
and thiram, nasal tumors induced in rats by feeding of, 609
Sodium selenite, effect of, in mouse trachea organ cultures, 857
Sulfur dioxide, behavioral modification of estuarine fish exposed to, 969
Sulfur dioxide-induced chronic bronchitis in beagle dogs, 945

Teratogenic assessment of 3 methylated hydrazine derivatives in rat, 125
Tetrachlorobenzenes in rat, metabolism of, 777
Thiram and sodium nitrite, induction of nasal tumors in rats by feeding of, 609
Trachea organ cultures of mouse, effect of sodium selenite on, 857
Tracheobronchial airways, interspecies comparisons of particle deposition and mucociliary clearance in, 441

Urinary-tract infections in pregnant women, studies of nitrofurantoin macrocrystals in rats and rabbits for treatment of, 811

Whole embryo culture, use of a water-insoluble chemical delivery and a metabolic activation system in, 499